

CURRICULUM VITAE  
**ALEXIE LEAUTHAUD**

LBNL  
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**Nationality:** French & Australian  
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**Phone:** 510 495-2554  
**Date of birth:** 15<sup>th</sup> Sep 1979

**Education, Scholarships and Fellowships**

2004-date Chamberlain Fellow, LBNL  
2004-2007 **Ph.D in Astrophysics** - LAM - France. Advisers: Jean-Paul Kneib and Olivier Le Fevre  
*Properties of dark matter halos determined by galaxy-galaxy lensing in the COSMOS survey*  
2004 Awarded French National Fellowship for graduate studies  
2003-2004 **Master in Astrophysics with honors** - Institut d'Astrophysique de Paris - Paris VI  
2001-2003 Master in Wireless Systems with honors - Kungl Tekniska Hogskolan (KTH) - Sweden  
2001 Awarded exceptional ENSICA Fellowship to pursue a double degree abroad  
2000 Rewarded the ENSICA pilot's fellowship  
1999-2002 Master in Aeronautical and Space Engineering (ENSICA) - Toulouse - France  
1997-1999 B.A Mathematics and Physics - Special award in Mathematics - Camille Guerin - France

**Employment details**

2004-2006 **Mathematics assistant at the University of Marseille Provence** - France  
2004 **Research Internship at** CALTECH - Pasadena -USA  
*Weak gravitational lensing and dark matter mass maps of the COSMOS survey.*  
2003 Systems Engineer for Airbus Industry - Toulouse -France  
Aug 2003 Research Internship LAM - Marseille - France  
*Study of diffractive optics and holographic gratings*  
2002-2003 Research Internship at the French National Space Agency (CNES) - Toulouse - France  
*Research concerning the development of space telecommunication applications*  
2002 Research for the city of Stockholm - Sweden  
*How to bring a Wireless Network to the Archipelago of Stockholm*  
2001 Yaskawa Electric Corporation - Fukuoka - Japan  
*Research for the Japanese National Humanoid Robot Project*  
Aug 2000 Summer School on Launcher Technology and Space Utilization - Bremen - Germany  
*First prize for research. Visit to French Guyana and to the Ariane Launching facilities*

**Teaching Experience**

2006      **Head Mathematics teacher in Linear Algebra** - University of Marseille Provence  
 2005      Assistant Mathematics teacher - University of Marseille Provence - France  
             *Good recommendations from the Chair of Mathematics are available*  
 2005-2006   Supervised 3 undergraduate weak lensing projects  
 2002-2004   Mathematics tutor for high school students

## Professional and Technical skills

- **Programming:** SQL, JAVA, C++, Fortran, Matlab, Maple, PERL, IDL, SExtractor
- **Observational data:** Extensive working experience with HST data. Responsible for the construction of the HST-ACS catalog for the COSMOS team. Measurement of spectroscopic redshifts from VIMOS for the ZCOSMOS program.
- **Active participant in work environment:** Elected student representative for the Laboratory council. Co-organizer of the “Cosmos Coffee Club” and “Tea Talks” at LAM.
- **Foreign Languages:** Fluent in French, English and Japanese (Levels 2 and 3 of Japanese proficiency test)

## Invited Seminars and Conference Talks

- **Invited review talk - The COSMOS SURVEY**  
   - Lensing Workshop, University of Victoria - June 2008
- **Invited review talk - Galaxy-galaxy lensing in the COSMOS SURVEY**  
   - Conference in Mexico, Mexico - March 2008
- **Cosmology seminar - Galaxy-galaxy lensing in the COSMOS SURVEY**  
   - University of British Columbia, Vancouver - November 2007
- **Cosmology seminar - Lensing with COSMOS**  
   - University of Toronto - January 2007
- **Seminar (RPM)- Lensing with COSMOS**  
   - Lawrence Berkeley National Lab - December 2006
- **Review talk - Lensing with COSMOS**  
   - COSMOS conference in Ringberg - September 2006
- **Measuring the Dark Matter Mass Function with Weak Gravitational Lensing**  
   - COSMOS conference in Ringberg - September 2006
- **Weak Gravitational Lensing around XMM Groups**  
   - Santa Cruz galaxy formation Workshop - Aug 2006

- Galaxy-galaxy lensing with COSMOS  
- COSMOS conference in Kyoto - April 2005

## Further Achievements

Private Pilots Licence obtained in 2002.  
Elected Vice-President of ENSICA Student Union - 2001

## Referees

Prof. Nick Scoville  
Caltech, MC 105-24  
1200 E. California Blvd  
Pasadena CA 91125  
USA

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Dr. Jean-Paul Kneib  
LAM  
Traverse du Siphon  
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Dr. Olivier Le Fevre  
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